

# **Як і чому втрачають українські видання?**

**Що ми можемо і маємо зробити,  
щоб запобігти цим втратам**

Ірина Тихонкова,  
керівник редакції журналу Biopolymers and Cell,  
к.б.н., с.н.с. відділу сигнальних систем клітини  
Інституту молекулярної біології і генетики НАНУ

# Для чого створюють і існують наукові видання

- **Представити результати**
- **Створити платформу для співпраці**
- Він у нас був, то не закривати ж його
- У всіх установ є журнал - і нам треба
- Для захисту дисертацій, (5/20 статей)
- Ваш варіант \_\_\_\_\_

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- Редколегія (Географія, фахівці)
- Рецензенти і автори (Географія, фахівці)
- Періодичність!!!
- Сайт
- Індексація базами даних

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  - Доклады Академии Наук Украинской ССР, Сер Б 1982–1990
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- 
- **Dopovidi Nats Akad Nauk Ukrainy?**
  - Proc Natl Acad Sci Ukr?
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Який з них вірний?



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0233-7657 print

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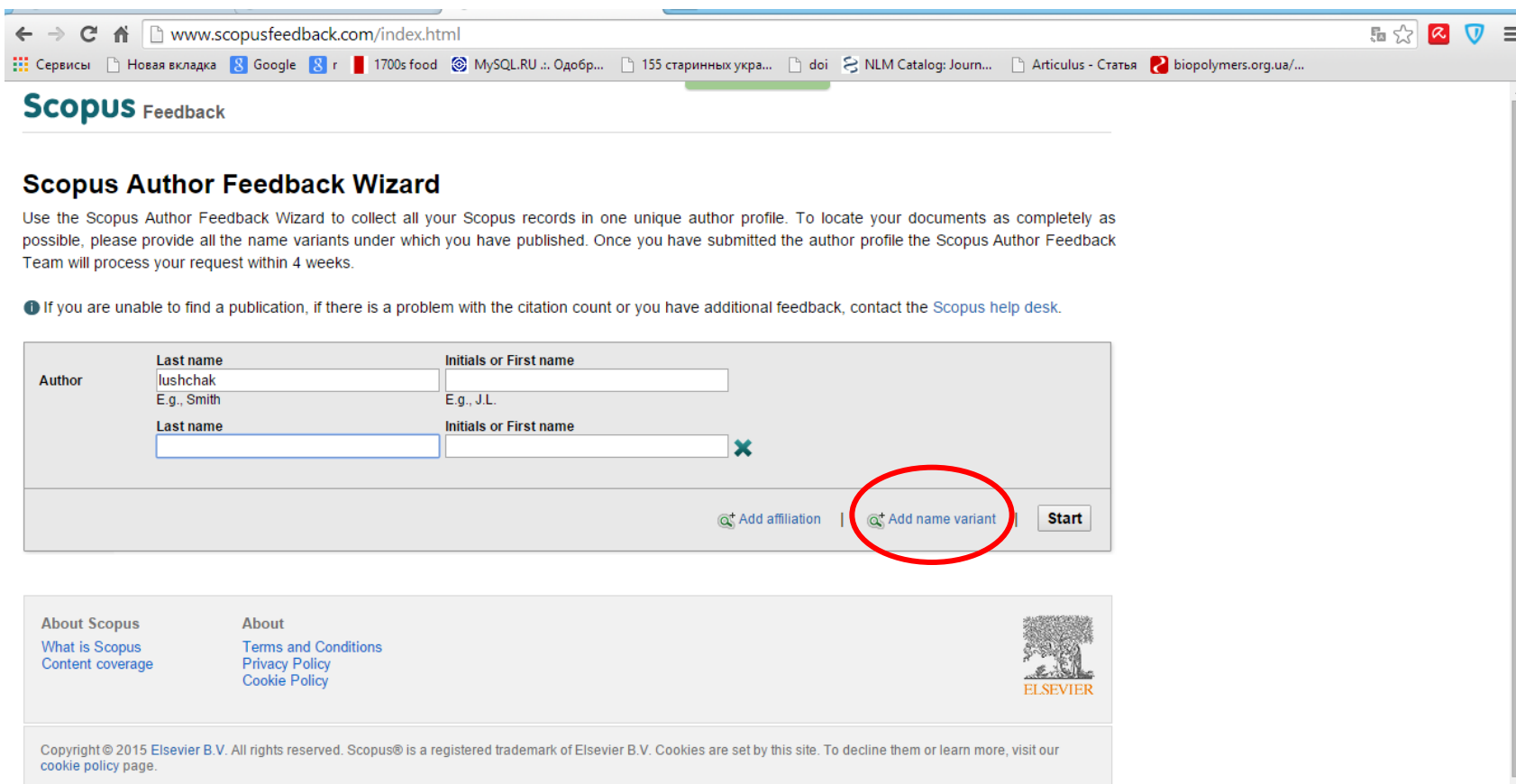
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- BIOLOGY
- **BIOLOGY** — змішані літери **червоні** — **кирилиця**, чорні - латиниця
- Призводить до некоректного розпізнавання та індексування авторів, статей тощо.
- ПЕРЕМИКАЙТЕ клавіатуру!!!

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The screenshot shows the homepage of the Biopolymers and Cell journal website. The browser's address bar displays [biopolymers.org.ua](http://biopolymers.org.ua/). The website header features the journal title "BIOPOLYMERS & CELL" in a stylized font, with the ISSN numbers "ISSN 0233-7657 (print); 1993-6842 (on-line)" below it. A navigation menu includes links for HOME, ARCHIVE, FOR AUTHORS, EDITORIAL BOARD, SUBSCRIPTION, CONTACTS, and SEARCH. Language selection buttons for EN, UK, and RU are visible. The main content area includes a thumbnail of the current issue (Volume 36, Issue 6, 2014) with a "current issue" link. A text block states the journal is a scientific journal issued by the National Academy of Sciences of Ukraine, Institute of Molecular Biology and Genetics of the NAS of Ukraine. It describes Biopolym. Cell as an open access peer-reviewed international journal publishing original contributions in molecular biology and related areas. A list of topics includes: Structure and function of biopolymers in different cells at different conditions; Genome regulation; Molecular mechanisms of differentiation; Oncogenesis; Cell-virus interaction; Biotechnology; Bioorganic chemistry; Drug design; and Biology of peptides, nucleoside derivatives and modified oligonucleotides. Another section lists the journal's sections: Structure and Function of Biopolymers; Genomics, Transcriptomics and Proteomics; Molecular and Cell Biotechnologies; Molecular Biophysics; Viruses and Cell; Bioinformatics; Bioorganic chemistry; Reviews; Minireviews; Methods; Discussions; Short Communications; Chronicle and Information; and Jubilee. A "Keep up to date on the latest at the Biopolymers and Cell" section offers electronic table of contents alerts. A "Subscribe here to receive the table of contents of Biopolymers and Cell" section includes an email address input field and a "Subscribe" button. The footer notes the journal's format corresponds to international standards, mentions that since 2014 articles are accepted and published in English, and lists the editorial board members. It also provides indexing information: Biopolymers and Cell is indexed and/or abstracted in Scopus, SJR (2013 - 0.188), Cites per Doc. (2y) = 0.417, journal impact factor (Thomson Reuters), Index Copernicus (ICF<sub>2011</sub> = 5.17), BIOSIS Previews, Biological Abstracts, DOAJ, eLibrary.ru, and the Russian index of

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**Epigenetics: What it is about?**  
Saade E., Ogryzko V. V.  
Biopolym. Cell. 2014; 30(1):3-9. <http://dx.doi.org/10.7124/bc.000873>  
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**Novel aspects of platelet aggregation**  
Roka-Moya Y. M., Bilous V. L., Zhernossekov D. D., Grinenko T. V.  
Biopolym. Cell. 2014; 30(1):10-15. <http://dx.doi.org/10.7124/bc.000874>  
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**The start of systems biology in Ukraine**  
Obolenskaya M. Yu., Tokovenko B. T., Kuklin A. V., Frolova A. A., Rodriguez R. R., Dotsenko V. A., Dragushchenko O. O.  
Biopolym. Cell. 2014; 30(1):16-24. <http://dx.doi.org/10.7124/bc.000878>  
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**Minireviews**


**Structure and function of oncogene-transfected immortal cells**  
Kavsan V. M., Kulagova T. A., Kuznetsova T. A., Semenkova G. N., Stepanenko A. A., Vassetzky Y. S.  
Biopolym. Cell. 2014; 30(1):25-28. <http://dx.doi.org/10.7124/bc.00087C>  
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**Structure and Function of Biopolymers**

**Phylogenetic study on structural elements of HIV-1 poly(A) region. 2. USE domain and TAR hairpin**  
Zarudnaya M. I., Potyahaylo A. L., Kolomiets I. M., Hovorun D. M.  
Biopolym. Cell. 2014; 30(1):29-36. <http://dx.doi.org/10.7124/bc.000879>  
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**Interaction between adaptor proteins Ruk/CIN85 and Tks4 in normal and tumor cells of different tissue origins**  
Bazalii A. V., Samoylenko A. A., Petukhov D. M., Rynditch A. V., Redowicz M.-J., Drobot L. B.

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<http://dx.doi.org/10.7124/bc.000873>

Reviews

### Epigenetics: What it is about?

<sup>1</sup>Saade E., <sup>2</sup>Ogryzko V. V.

1. Faculty of Public Health, Lebanese University  
P.O. Box 6573/14 Badaro, Museum, Beirut, Lebanon
2. CNRS UMR 8126, Universit Paris-Sud 11, Institut Gustave Roussy  
114, rue Edouard Vaillant, Villejuif, France, 94805

Abstract

References

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SEXUALLY MATURE INDIVIDUALS OF *XENOPUS LAEVIS* FROM THE TRANSPLANTATION OF SINGLE SOMATIC NUCLEI

J. B. GURDON, T. R. BISHOP & M. FISCHBERG

Department of Zoology and Comparative Anatomy, University of Oxford, Oxford, U.K.

A METHOD of testing the potentialities of nuclei from embryonic cells has been described by Briggs and King<sup>1</sup>. The method consists of transferring a nucleus from an unselected and unfertilized egg of the same species. King and Briggs<sup>2</sup>, who have performed their experiments on *Rana pipiens*, found that normal tadpoles resulted from eggs with transplanted nuclei in about 35 per cent of cases in which the nuclei were taken from blastulae, but in only about 5 per cent of cases in which the nuclei were taken from late gastrula outgrowths; they have not reported normal development from nuclei of post-neurula or later stages.

1. Briggs R., and King T. J., *J. Exp. Zool.* 122, 445 (1953). [Article](#) [ISI](#)
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3. Elsdale T. R., Fischberg M., and Smith S., *Exp. Cell Res.* (in press)
4. Newkump, P. D., and Fisher J., "Normal Tadpole of *Xenopus laevis*" (1958)

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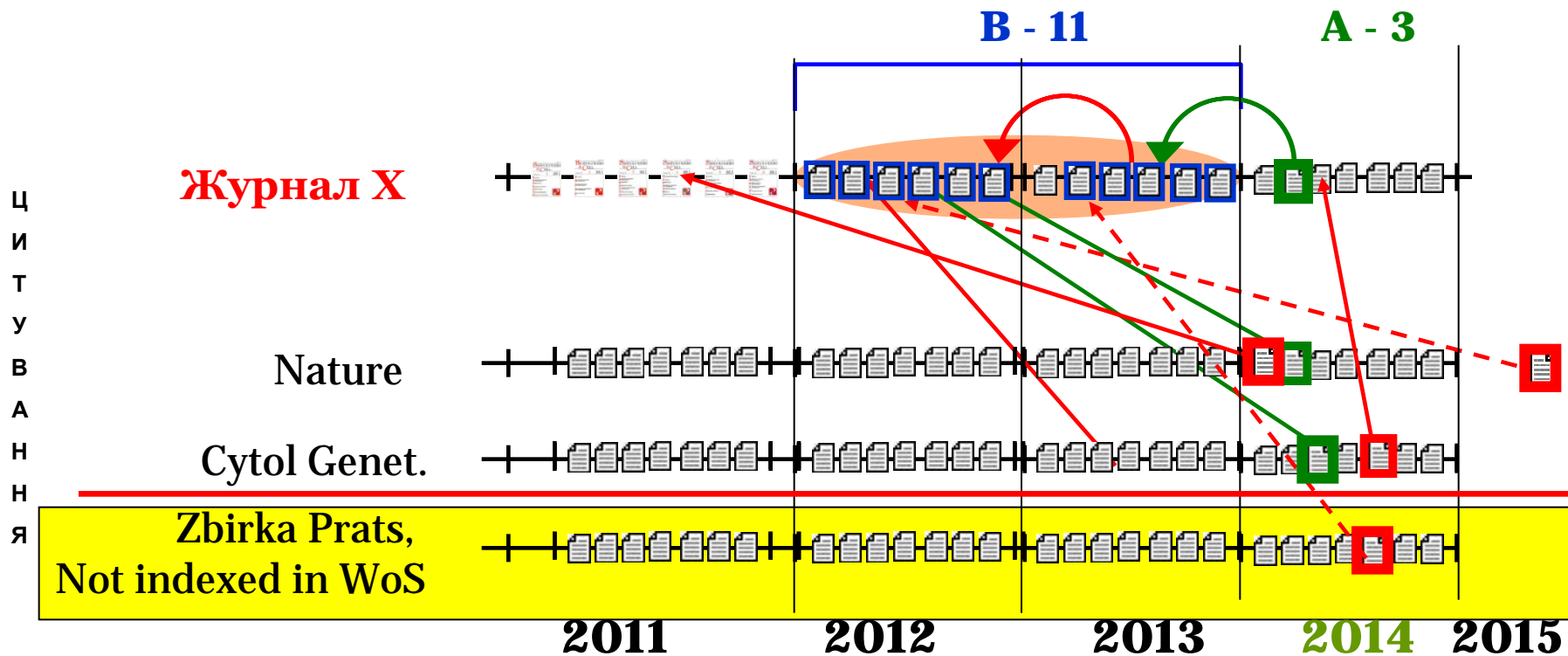
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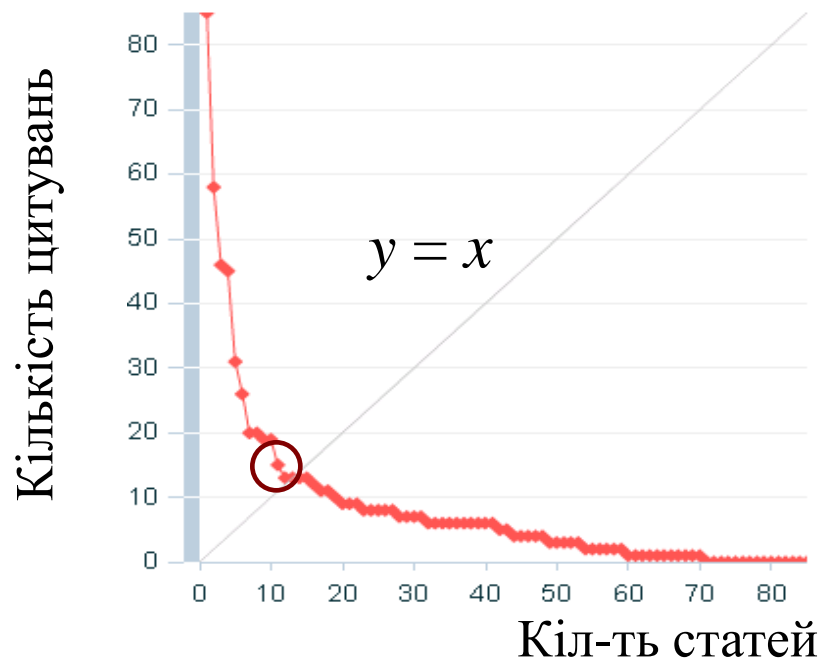


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- 3. Mechanisms of electron transfer to insoluble terminal acceptors in chemoorganotrophic bacteria. Samarukha, I.A.
- 4. The effect of ATP-dependent K<sup>+</sup>-channel opener on transmembrane potassium exchange and reactive oxygen species production upon the opening of mitochondrial pore. Akopova, O.V., Kolchinskaya, L.I., Nosar, V.I., Mankovska, I.N., Sagach, V.F.
- 5. Proteolytic activity of IgG-antibodies of mice, immunized by calf thymus histones. Kit, Y., Korniy, N., Kril, I., Bilyy, R.
- 6. Quantitative changes of main components of erythrocyte membranes which define architectonics of cells under pttg gene knockout. Kanyuka, O.P., Filyak, Y.Z., Kulachkov, O.R., Osyp, Y.L., Sybina, N.O.

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- 2. [Systems biology and the project 'Encode']. Obolenska, M.Iu.
- 3. Influence of vermiculite particles on antioxidant properties of cultural medium of Bacillus subtilis (B/V-7022). Skorobod, I.A., Kudrinsk, I.K.
- 4. Laureates of the Palladin Prize of the National Academy of Sciences of Ukraine (2001, 2003 years). Danylova, V.M., Vynogradova, R.P.
- 5. [Protein intercalation in DNA as one of main modes of fixation of the most stable chromatin loop domains]. Chopel, M.I., Alanas'eva, K.S., Skolob, A.V.

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ISSN 0201 — 8470. Ukr. Biochem. J., 2014, Vol. 86, N 2 105

ЕКСПЕРИМЕНТАЛЬНІ РОБОТИ

**IDENTIFICATION OF SMALL RNA IN POLYHEDRA OF *Bombyx mori* NUCLEAR POLYHEDROSIS VIRUS**

T. V. Shirina, G. V. Gerashchenko, M. T. Bobrovskaja, V. I. Kashuba

Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine, Kyiv; e-mail: tv.shirina@inbox.ru

It has been shown by bioinformatic methods that regions of the *Bombyx mori* viral nuclear polyhedrosis genome encoded two small RNA - snc RNA-1 and snc RNA-2, which could perform a structural function in polyhedra crystals formation. The aim of this work was identification of the nucleotide sequence of small non-coding RNAs, predicted by bioinformatic methods in *B. mori* polyhedra. The following methods have been used: polymerase chain reaction, agarose gel electrophoresis, the cloning of PCR products, sequencing.

There were first determined nucleotide sequences of snc RNA-1 and snc RNA-2 of polyhedrin mRNA complementary regions which are included in *B. mori* polyhedra. These RNAs have 100% identity with bioinformatic predicted sequences. These results confirmed our bioinformatic approach to the search for small RNAs encoded in *B. mori* nuclear polyhedrosis virus genome.

**Key words:** nuclear polyhedrosis virus, *Bombyx mori*, polyhedrin, small non-coding RNA, sequencing.

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Ukrainskii biokhimicheskii zhurnal

Volume 86, Issue 4, 2014 Jul-Aug, Pages 5-17

[Systems biology and the project "Encode"] (Review)

Obolenska, M.Iu.

Abstract

The goal of this review is to give an incipient knowledge on the background of system biology, the premises to its assignment as a new branch of biology, its principles, methodology and its great achievements in identification of functional elements of human genome and regulation of their concordant and differential activity. The short characteristics of functional elements including the protein-coding sequences and those coding noncoding RNAs, the DNase 1 hypersensitivity sites and methylated CpG islets, modified histones and specific 3D structure of chromatin, are represented. The topology of transcription factors network with its main motifs, hierarchy, combination and association of transcription factors and their allelic specificity are highlighted.

Indexed keywords

EMTREE medical terms: human; human genome; organization and management; procedures; systems biology; trends; Ukraine

MeSH: Genome, Human; Humans; Systems Biology; Ukraine

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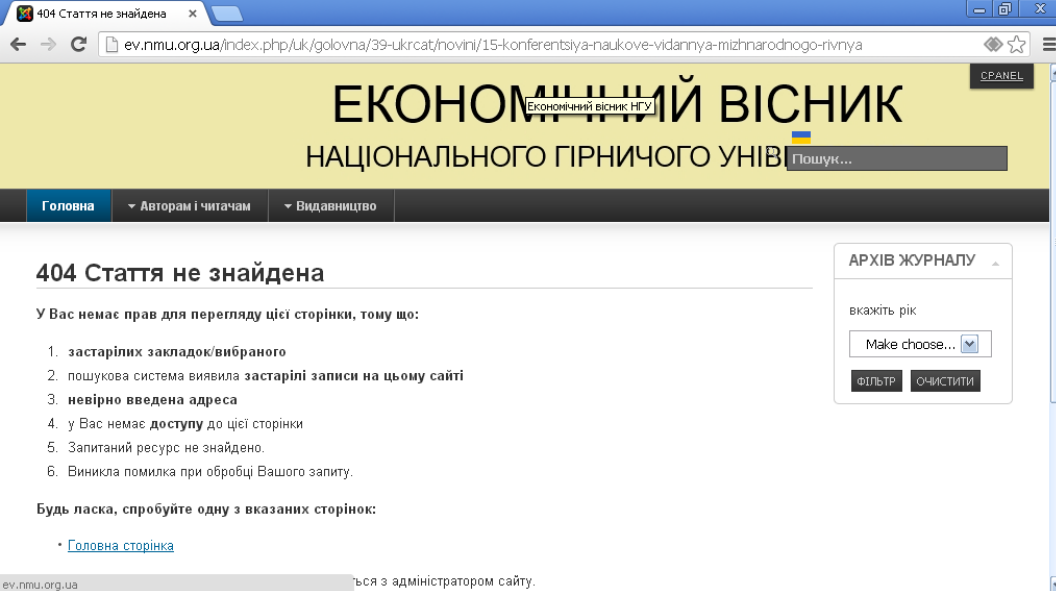
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## Perspective: Finding cancer's first principles

Robert Gatenby

Nature 491, S55 (22 November 2012) | doi:10.1038/491S55a

Published online 21 November 2012

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Genomic analysis of cancer has yielded vast quantities of data. But it is not enough to know what is going on; rather try to find the basic tenets of the disease.

Subject terms: Cancer • Physical sciences

ISSN 0233-7577. Biopolymers and Cell, 2013, Vol. 29, N. 3, P. 180-206

doi:10.7554/bc.000012

UDC 577.15 + 543.6 + 543.9 + 543.55 + 544.725

### Biosensors. A quarter of a century of R&D experience

A. P. Soldatkin, S. V. Dzyadevych, Y. I. Korpan, T. A. Sergeeva, V. N. Arkhyapova, O. A. Bilovan, O. O. Soldatkin, L. V. Shkotova, O. A. Zinchenko, V. M. Peshkova, O. Y. Saiapina, S. V. Marchenko, A. V. Ef'skaya

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The paper is a review of the researches of Biomolecular Electronics Laboratory concerning the development of biosensors based on electrochemical transducers (amperometric and conductometric electrodes, potentiometric pH sensitive field effect transistors) and different biorecognition molecules (enzymes, cells, antibodies), biomimetic (molecularly imprinted polymers), or sensitive elements for direct analysis of substrates or inhibitory analysis of inhibitors. Highly specific, sensitive, simple, fast and cheap detection of different substances renders them as promising tools for needs of health care, environmental control, biotechnology, agriculture and food industries. Diverse biosensor formats for direct determination of different analytes and inhibitory enzyme analysis of a number of toxins have been designed and developed. Improvement of their analytical characteristics may be achieved by using differential mode of measurement, negatively or positively charged additional semipermeable membranes, nanomaterials of different origin, genetically modified enzymes. These approaches have been aimed at increasing the sensitivity, selectivity and stability of the biosensors and extending their dynamic ranges. During the last 25 years more than 10 laboratory prototypes of biosensor systems based on mono- and multibiosensors for direct determination of a variety of metabolites and inhibitory analysis of different toxic substances were created. Some of them were tested in real samples analysis. The advantages and disadvantages of the biosensors developed are discussed. The possibility of their practical application is considered.

Keywords: electrochemical biosensor, immobilized enzyme, substrate, inhibitor, multibiosensor

**Introduction.** The last decades have shown unprecedented interest in the development of analytical devices for the detection, quantification, and monitoring of different biological and chemical compounds. The dynamic field of biosensors is covered by the extensive number of

is in direct contact with a physical transducer, which transforms the information from biorecognition domain into an electrical or optical signal. The amplitude of such signal depends on the concentration of the analysed compound (analyte) in the sample. Biologically active

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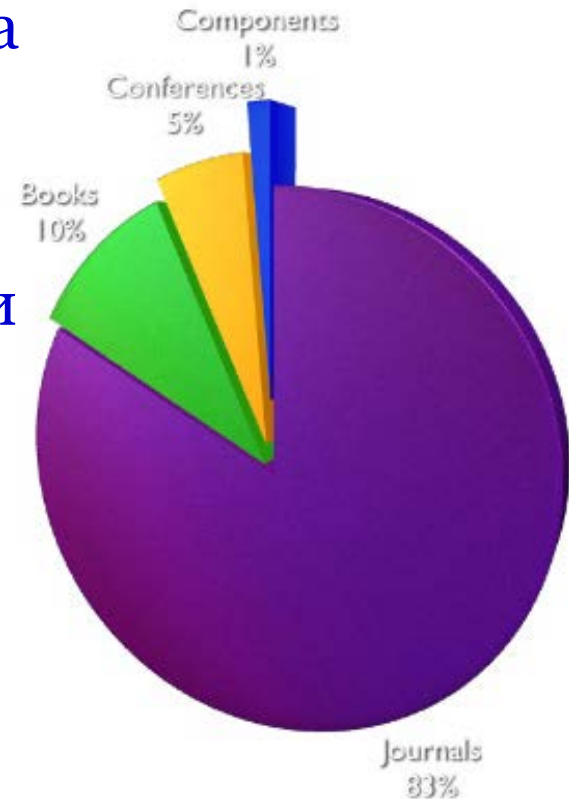
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I.Ya. Skrypkina<sup>1</sup>, O.G. Kondratov<sup>1</sup>, L.O. Tsyba<sup>1</sup>, G.V. Panasenko<sup>1</sup>, D.V. Nikolaenko<sup>1</sup>, A.M. Romanenko<sup>2</sup>, O.O. Kolesnyk<sup>3</sup>, D.Ye. Morderer<sup>1</sup>, K.A. Nekrasov<sup>1</sup>, V.I. Kashuba<sup>1</sup>, S.O. Vozianov<sup>2</sup>, I.B. Shechepotin<sup>3</sup>, A.V. Rynditch<sup>1</sup>

<sup>1</sup>Institute of Molecular Biology and Genetics, NAS of Ukraine, Kyiv  
<sup>2</sup>State Institution «Institute of Urology, Academy of Medical Ukraine», Kyiv  
<sup>3</sup>National Cancer Institute, Kyiv

Detection of Cell-Free DNA and Gene-Specific Methylation in Blood Plasma of Patients with Renal and Colon Cancer

Section: Scientific and Technical Innovative Projects of National Academy of Sciences of Ukraine  
Language: Ukrainian

**Abstract:** Gene-specific methylation and concentration of cell-free DNA in blood can be important tools for the early diagnosis of cancer. Here, we have shown that total cell-free DNA levels were higher in patients with renal and colon cancer compared to healthy individuals. The results indicated that cellfree DNA can be used for detection of hypermethylation of cancer marker genes. CpG islands of LRRC3B, APC and FHIT genes were hypermethylated in 33,3 %; 27,8 % and 33,3 % of patients with renal cancer and in 14,3 %; 28,5 % and 19 % of patients with colon cancer, respectively. Hypermethylation of LRRC3B, APC and FHIT was not detected in cell-free DNA of healthy individuals. We have proposed the methods for quantitative analysis of cell-free DNA in blood plasma and detection of the methylation of marker genes, which could be useful for diagnostics of cancer.  
**Key words:** cell-free DNA, renal cancer, colon cancer, methyl-specific PCR, tumor marker genes

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Original Article

## Effects of Telomerase Modulation in Human Hematopoietic Progenitor Cells

Stefan Zimmermann<sup>1,2</sup>, Stefanie Glaser<sup>1</sup>, Robin Ketteler<sup>3</sup>, Cornelius F. Waller<sup>1</sup>, Ursula Klingmüller<sup>3</sup> and Dr. Uwe M. Martens<sup>1,\*</sup>

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Biopolymers and Cell 05/2013; 29(3):188–206. DOI: 10.7124/bc.000819

**ABSTRACT** The paper is a review of the researches of Biomolecular Electronics Laboratory concerning the development of biosensors based on electrochemical transducers (amperometric and conductometric electrodes, potentiometric pH-sensitive [more]

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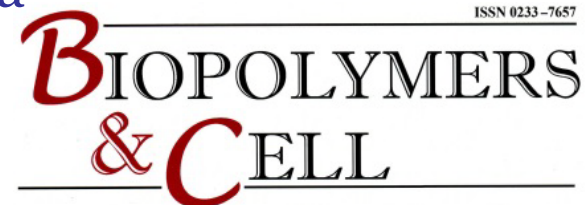


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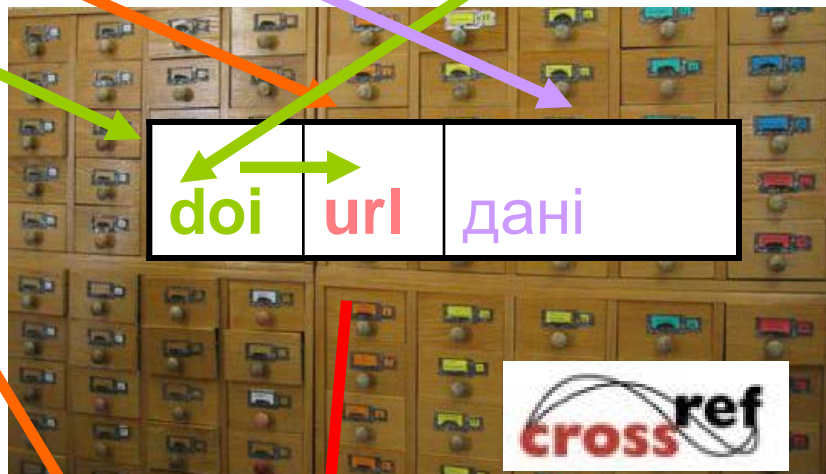
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## Relationship between TLR4 signalling alterations and effective human cytomegalovirus infection

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- Abstract

Toll-like receptors (TLR), the main class of immune-sensor molecules triggering the innate immunity pathways, are known to be involved in the infection of different DNA and RNA viruses, including herpesviruses. Human cytomegalovirus (HCMV) is a widespread human beta-herpesvirus that affects 80–90% of the world's population and it can cause severe and even fatal diseases in immunocompromised patients, and it is also responsible for different defects and consequences of congenital infection. In this review we discuss the existing data regarding the role of TLRs in HCMV concentrating mainly on TLR4. A better understanding in this relationship could be exploited for the development of efficient early diagnosis methodologies and anti viral therapies.

**Keywords:** human cytomegalovirus, Toll-like receptors, innate immune response

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#### References

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